STATUTORY INVENTION REGISTRATIONS

AND

DEFENSIVE PUBLICATIONS

JANUARY 1977 -- DECEMBER 1996



April 1997 U.S. PATENT AND TRADEMARK OFFICE OFFICE OF ELECTRONIC INFORMATION PRODUCTS / TAF PROGRAM PK3 - SUITE 441, WASHINGTON, DC 20231 TEL (703) 306-2600/ FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

Statutory Invention Registrations and Defensive Publications Report 1/1977 - 12/1996 Explanation of Data

This Technology Assessment and Forecast (TAF) Program Report profiles patent activity for statutory invention registrations and defensive publications (hereafter referred to as patents) granted between 1977 and December 1996. The source of the data used for this report is the TAF data base maintained by the Office of Electronic Information Products.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1983" column corresponds to the period January 1, 1977 through December 31, 1982.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 40% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 21 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in December 1996. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by many factors, including PTO

workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received one or more U.S. statutory invention registrations and/or defensive publications since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

* A CD 1 21 1000 I

defensive publications are not available.

^{*} As of December 31, 1996, UTILITY patent application data (most issued patent documents are utility patents) were approximately 93% complete for patent applications filed in 1993, 80% complete for applications filed in 1994, and 30% complete for applications filed in 1995. They are essentially complete for applications filed prior to 1993. Currently, completion percentages restricted to statutory invention registrations and

Part A1
Patent Grants As Distributed By Year of Patent Grant

Foreign Individuals 30 2 2 1 1 1 1 7 6 4 7 5

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977 - 1996 Page A1- 1

		Patents	Granted	. By Da	te Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	1996)					
				_													
							NU	JMBER OF	PATENTS								
	Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Total	
Total	411	34	31	29	179	213	167	157	143	144	117	144	117	121	109	2116	
U.S. Origin	337	32	29	27	172	203	160	134	123	128	98	131	105	111	94	1884	
Foreign Origin	74	2	2	2	7	10	7	23	20	16	19	13	12	10	15	232	
JAPAN	9				7	6	5	16	16	14	13	12	9	7	12	126	
UNITED KINGDOM	44	2				2	1	2	3	1			1			56	
CANADA	3		1			1		3	1		1	1	1	1		13	
GERMANY	7		1								2					10	
NETHERLANDS	4					1		1			1				1	8	
FRANCE	2										2		1	1		6	
SWITZERLAND	2			1										1	1	5	
INDIA				1						1					1	3	
AUSTRALIA	2															2	
ITALY							1	1								2	
SWEDEN	1															1	
Ownership:																	
U.S. Corporations	145	1		3	37	28	31	30	21	24	25	36	34	35	40	490	
U.S. Government	33			3	120	162	114	95	80	87	61	64	49	51	37	956	
U.S. Individuals	168	31	29	21	15	17	16	14	24	19	13	31	24	25	19	466	
Foreign Corporations	35			1	6	5	5	11	12	10	11	8	9	5	7	125	
Foreign Government																0	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977 - 1996 Page A1- 2

		Patents	Granted	. By Da	ite Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	1996)					
									F PATENTS								
	Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	82	94	94	93	96	95	96	85	86	89	84	91	90	92	86	89	
Foreign Origin	18	6	6	7	4	5	4	15	14	11	16	9	10	8	14	11	
JAPAN	2				4	3	3	10	11	10	11	8	8	6	11	6	
UNITED KINGDOM	11	6				1	1	1	2	1			1			3	
CANADA	1		3					2	1		1	1	1	1		1	
GERMANY	2		3								2					0	
NETHERLANDS	1							1			1				1	0	
FRANCE											2		1	1		0	
SWITZERLAND				3										1	1	0	
INDIA				3						1					1	0	
AUSTRALIA																0	
ITALY							1	1								0	
SWEDEN																0	
Ownership:																	
U.S. Corporations	35	3		10	21	13	19	19	15	17	21	25	29	29	37	23	
U.S. Government	8			10	67	76	68	61	56	60	52	44	42	42	34	45	
U.S. Individuals	41	91	94	72	8	8	10	9	17	13	11	22	21	21	17	22	
Foreign Corporations	9			3	3	2	3	7	8	7	9	6	8	4	6	6	
Foreign Government																0	
Foreign Individuals	7	6	6	3	1		1	4	4	3	6	3	1	4	6	4	

Part A2 Patent Grants As Distributed By Year of Patent Application

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977 - 1996 Page A2- 1

	Pat	tents Gr	anted E	By Date	Of Pat	ent App	lication	ı (Grant	ed: Jan	01, 1977	- Dec 3	1, 1996)					
						N	IUMBER C	F PATENT	ED APPLI	CATIONS							
	Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Total	
Total	482	52	118	177	199	172	144	162	161	127	132	105	59	24	2	2116	
U.S. Origin	405	49	112	163	192	156	117	145	139	120	120	94	48	22	2	1884	
Foreign Origin	77	3	6	14	7	16	27	17	22	7	12	11	11	2		232	
JAPAN	9	1	3	10	6	12	19	16	16	6	10	8	8	2		126	
UNITED KINGDOM	46	1		1	1	3	3					1				56	
CANADA	4			1		1	3		3			1				13	
GERMANY	7	1					1			1						10	
NETHERLANDS	4		1	1				1					1			8	
FRANCE	2								2		2					6	
SWITZERLAND	2			1									2			5	
INDIA			1						1			1				3	
AUSTRALIA	2															2	
ITALY			1				1									2	
SWEDEN	1															1	
Ownership:																	
U.S. Corporations	152	12	22	38	25	28	23	25	30	36	35	37	19	7	1	490	
U.S. Government	48	20	57	111	154	117	82	93	86	54	59	43	18	11	1	954	
U.S. Individuals	214	17	34	16	16	14	16	28	25	31	26	14	13	4		468	
Foreign Corporations	35	1	3	10	4	5	18	11	14	4	8	6	5	1		125	
Foreign Government																0	
Foreign Individuals	33	2	2	2		8	5	5	6	2	4	5	4	1		79	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977 - 1996

	Pat	ents Gr	anted I	By Date	Of Pat	ent App	lication	(Grant	ed: Jan	01, 1977	- Dec 3	1, 1996)					
						P	ERCENT O	F PATENT	ED APPLI	CATIONS							
	Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	84	94	95	92	96	91	81	90	86	94	91	90	81	92	100	89	
Foreign Origin	16	6	5	8	4	9	19	10	14	6	9	10	19	8		11	
JAPAN	2	2	3	6	3	7	13	10	10	5	8	8	14	8		6	
UNITED KINGDOM	10	2		1	1	2	2					1				3	
CANADA	1			1		1	2		2			1				1	
GERMANY	1	2					1			1						0	
NETHERLANDS	1		1	1				1					2			0	
FRANCE									1		2					0	
SWITZERLAND				1									3			0	
INDIA			1						1			1				0	
AUSTRALIA																0	
ITALY			1				1									0	
SWEDEN																0	
Ownership:																	
U.S. Corporations	32	23	19	21	13	16	16	15	19	28	27	35	32	29	50	23	
U.S. Government	10	38	48	63	77	68	57	57	53	43	45	41	31	46	50	45	
U.S. Individuals	44	33	29	9	8	8	11	17	16	24	20	13	22	17		22	
Foreign Corporations	7	2	3	6	2	3	13	7	9	3	6	6	8	4		6	
Foreign Government																0	

Foreign Individuals

Part B

Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application

Organizational Patenting			(Gra	inted: Ja	an 01, 19	977 - Dec	31, 199	6)	Ranked	l List of	Organiz	ations w	ith 1	or More	Patents	
	Pre															
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	0	0	0	0	57	85	48	36	37	29	23	30	16	19	18	398
Patents By Year of Application:	5	5	21	40	79	50	32	42	29	24	35	26	9	0	1	398
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	1	0	0	0	17	36	23	20	11	15	16	14	17	16	9	195
Patents By Year of Application:	7	3	14	21	36	24	12	18	17	17	10	8	4	4	0	195
UNITED STATES OF AMERICA, DEPARTMENT	OF ENERGY	ľ														
Patents By Year of Grant:	3	0	0	0	24	17	16	18	17	20	8	10	6	5	0	144
Patents By Year of Application:	7	8	11	19	15	19	13	20	18	7	5	1	1	0	0	144
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	0	0	0	0	7	18	21	20	13	14	6	7	7	6	5	124
Patents By Year of Application:	0	3	10	11	19	23	20	7	10	5	5	6	3	2	0	124
SHELL OIL COMPANY																
Patents By Year of Grant:	8	0	0	0	0	3	7	6	4	6	8	10	12	12	13	89
Patents By Year of Application:	9	1	2	4	4	7	4	7	5	16	12	11	4	3	0	89
UNITED STATES OF AMERICA																
Patents By Year of Grant:	0	0	0	2	13	5	5	0	1	6	5	3	3	5	5	53
Patents By Year of Application:	1	1	1	18	3	0	2	4	10	1	4	2	1	5	0	53
AT&T CORP.																
Patents By Year of Grant:	7	0	0	2	15	2	4	2	2	1	0	3	1	0	0	39
Patents By Year of Application:	8	8	8	4	1	3	0	2	2	1	2	0	0	0	0	39
CATERPILLAR INC.																
Patents By Year of Grant:	24	0	0	0	0	1	0	0	0	2	0	4	1	3	0	35
Patents By Year of Application:	24	0	0	0	1	0	0	0	1	3	1	4	1	0	0	35
FUJI PHOTO FILM CO., LTD																
Patents By Year of Grant:	0	0	0	0	5	0	1	6	6	4	3	1	5	1	2	34
Patents By Year of Application:	0	1	0	5	1	0	10	7	1	2	4	1	2	0	0	34
E. I. DU PONT DE NEMOURS AND COMPANY																
Patents By Year of Grant:	9	0	0	0	5	2	2	1	1	1	1	2	2	2	1	29
Patents By Year of Application:	10	0	1	4	3	0	3	2	1	1	2	1	1	0	0	29
UNITED STATES OF AMERICA, TENNESSEE V.	ALLEY AUT	THORITY														
Patents By Year of Grant:	21	0	0	0	2	0	1	1	0	1	2	0	0	0	0	28
Patents By Year of Application:	21	0	0	2	1	1	1	2	0	0	0	0	0	0	0	28

Organizational Patenting			(Gra	nted: Ja	n 01, 19	977 - Dec	31, 199	6)	Ranked	l List of	Organiz	ations w	ith 1	or More	Patents		
	Pre																
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
INTERNATIONAL BUSINESS MACHINES CORPO	OPATTOM																
Patents By Year of Grant:	25	0	0	0	0	0	1	0	0	1	0	0	0	0	0	27	
Patents By Year of Application:	26	0	0	0	0	0	0	1	0	0	0	0	0	0	0	27	
IMPERIAL CHEMICAL INDUSTRIES PLC																	
Patents By Year of Grant:	25	0	0	0	0	0	0	0	0	0	0	0	1	0	0	26	
Patents By Year of Application:	25	0	0	0	0	0	0	0	0	0	1	0	0	0	0	26	
KONICA CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	3	0	2	4	7	2	2	5	25	
Patents By Year of Application:	0	0	0	0	0	2	1	1	11	1	3	2	3	1	0	25	
racenes by rear or approaches	· ·	· ·		· ·	Ū	_	-	-		=	<u> </u>	_	J	-	•	20	
A. E. STALEY MANUFACTURING COMPANY																	
Patents By Year of Grant:	0	0	0	0	1	3	4	4	2	3	2	1	1	2	1	24	
Patents By Year of Application:	0	0	1	6	1	2	4	2	4	0	3	0	1	0	0	24	
EXXON PRODUCTION RESEARCH COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	1	0	0	3	5	2	4	16	
Patents By Year of Application:	0	0	0	1	0	0	1	0	1	2	3	5	3	0	0	16	
W. R. GRACE & COCONN.																	
Patents By Year of Grant:	0	0	0	1	2	5	2	0	2	0	2	1	0	0	0	15	
Patents By Year of Application:	0	0	1	6	2	1	1	2	0	0	2	0	0	0	0	15	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																	
DOW CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	1	1	0	0	0	1	1	0	4	1	9	
Patents By Year of Application:	0	0	0	0	1	1	0	0	1	2	1	2	0	0	1	9	
EASTMAN KODAK COMPANY	-	0	0	0	1	0	0	0	0	0	1	1	0	0	4	9	
Patents By Year of Grant: Patents By Year of Application:	5 5	0	0	0 1	1	0	0	0	0 1	0 1	1	1	0	0	1	9	
Patents By Tear Of Application.	5	U	U	1	U	U	U	U	1	1	1	U	U	U	U	9	
FMC CORPORATION																	
Patents By Year of Grant:	3	0	0	0	2	1	0	0	1	1	0	1	0	0	0	9	
Patents By Year of Application:	3	2	1	0	0	1	1	0	1	0	0	0	0	0	0	9	
UNITED STATES OF AMERICA, DEPARTMENT																	
Patents By Year of Grant:	7	0	0	0	0	1	0	0	0	0	1	0	0	0	0	9	
Patents By Year of Application:	7	0	0	0	1	0	1	0	0	0	0	0	0	0	0	9	
BRISTOL-MYERS SQUIBB COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	2	2	0	0	1	2	1	0	8	
Patents By Year of Application:	0	0	1	0	1	1	2	0	1	0	1	1	0	0	0	8	
Tacches B _I rear of Application.			-		-	-	_	ŭ	-	ŭ	-	-	3				

	- Organizational Patenting			(Gra	nted: Ja	n 01, 19	77 - Dec	31, 199	5)	Ranked	List of	Organiz	ations w	ith 1	or More	Patents		
		5																
		Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
		1703	1703	1704	1703	1700	1007	1700	1707	1000	1001	1772	1000	1004	1000	1000	TOTAL	
CONC	O INC.																	
Pa	atents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Pa	atents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
HERCU	ULES INCORPORATED																	
	atents By Year of Grant:	3	1	0	0	0	0	0	0	0	0	1	1	1	0	1	8	
Pa	atents By Year of Application:	4	0	0	0	0	0	0	0	1	1	1	0	1	0	0	8	
	ITZ CORPORATION	0	0	0	0	0	2	1	1	1	1	0	0	0	4	0	0	
	atents By Year of Grant:	0	0	0	0 2	0 3	3 1	1 1	1 0	1 0	1	0	0 1	0	1	0	8 8	
Pa	atents By Year of Application:	U	U	U	2	3	1	1	U	U	U	U	1	U	U	U	8	
MEDTI	RONIC INC.																	
	atents By Year of Grant:	0	0	0	0	2	1	1	0	0	0	1	0	1	1	0	7	
	atents By Year of Application:	1	0	2	1	0	0	0	0	1	0	1	1	0	0	0	7	
EXXO	N RESEARCH + ENGINEERING CO.																	
Pa	atents By Year of Grant:	0	0	0	0	0	2	1	1	2	0	0	0	0	0	0	6	
Pa	atents By Year of Application:	0	0	0	1	1	3	0	1	0	0	0	0	0	0	0	6	
	STONE TIRE & RUBBER CO.																	
	atents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Pa	atents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
CENTER	RAL ELECTRIC COMPANY																	
	atents By Year of Grant:	3	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5	
	atents By Year of Application:	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	
		-	-	•	-			•	•		•	-	-		•			
PROC'	TER + GAMBLE COMPANY																	
Pa	atents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	
Pa	atents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	5	
	INGHOUSE ELECTRIC CORP.																	
	atents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Pa	atents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
VEDO	X CORPORATION																	
	atents By Year of Grant:	0	0	0	0	3	0	0	0	0	0	0	1	0	1	0	5	
	atents By Year of Application:	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0	5	
I.C	access 27 rear or approaction.	· ·	_					0		Ü	2	0		3	3	3	J	
ATLAI	NTIC RICHFIELD COMPANY																	
Pa	atents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4	
Pa	atents By Year of Application:	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	4	

Organizational Patenting			(Gra	nted: Ja	n 01, 19	77 - Dec	31, 199	б)	Ranked	List of	Organiz	ations w	rith 1	or More	Patents		
	_																
	Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
	1703	1703	1704	1703	1700	1007	1000	1000	1000	1001	1002	1000	1004	1000	1000	TOTAL	
CETUS CORPORATION																	
Patents By Year of Grant:	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	4	
Patents By Year of Application:	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4	
AMERICAN CYANAMID COMPANY																	
Patents By Year of Grant:	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	
BEXFORD LIMITED																	
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
CHRYSLER MOTORS CORPORATION																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	3	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	3	
GILLETTE COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	3	
Patents By Year of Application:	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	3	
ISHIHARA SANGYO KAISHA LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3	
Patents By Year of Application:	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3	
MI DRILLING FLUIDS COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	3	
Patents By Year of Application:	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	3	
MINNESOTA MINING AND MANUFACTURING CO	OMPANY																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	
MOTOROLA, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	3	
Patents By Year of Application:	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	3	
NAVISTAR INTERNATIONAL TRANSPORTATION	ORP.																
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
RHONE-POULENC INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	

Organizational Patenting			(Gra	inted: Ja	an 01, 19	977 - Dec	31, 199	6)	Ranked	l List of	Organiz	ations w	ith 1	or More	Patents		
	Pre																
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
SMITH INTERNATIONAL INC.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	
INTEREST OF AMERICA, URALEUL C. III	MAN GEDI	TORO															
UNITED STATES OF AMERICA, HEALTH & HU		1CES	0	0	0	0	0	0	1	2	0	0	0	0	0	2	
Patents By Year of Grant:	0	-	0	0	-	0	-	-	1		-	-		~		3	
Patents By Year of Application:	0	0	0	0	0	U	1	0	2	0	0	0	0	0	0	3	
ADVANCED NUCLEAR FUELS CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
BEXFORD LIMITED IMPERIAL CHEMICAL HOU	ISE																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
FORD MOTOR COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
1 1 1 1																	
KEARNEY + TRECKER CORPORATION																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
MALLINCKRODT, INC.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
MITSUBISHI RAYON CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
MOBIL OIL CORP.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
NIPPONDENSO CO., LTD.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
OTIS ENGINEERING CORPORATION																	
	0	0	0	0	0	0	0	0	0	1	1	٥	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	
Patents By Year of Application:	U	U	U	U	U	U	U	U	Τ	1	U	U	U	U	U	Z	

Organizational Patenting			(Gra	ınted: Ja	an 01, 19	77 - Dec	31, 199	6)	Ranked	List of	Organiz	ations w	ith 1	or More	Patents		
	Pre																
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
POLAROID CORPORATION								_									
Patents By Year of Grant:	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	
RCA CORPORATION																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
DEGOGNITATON FOULDWANT INGODODATAD																	
RECOGNITION EQUIPMENT INCORPORATED	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	1	0	Ţ	0	0	0	0	0	0	0	0	2	
TENAGO GUENTGAL GONDANI																	
TEXACO CHEMICAL COMPANY	0	0	0	0	0	0	0	0	0	0	-	0	0	-	0	0	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0 2	0	1	0	0	1	0	2	
Patents By Year of Application:	U	U	U	U	U	U	U	U	2	U	U	U	U	U	U	2	
UNITED STATES BORAX + CHEMICAL CORPOR	A III CAT																
	RATION 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Grant: Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year OI Application.	۷	U	U	U	U	U	U	U	U	U	U	U	U	U	U	۷	
VISKASE CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	
racenes by fear of Application:	U	U	U	1	U	U	U	U	U	U	U	U	1	U	U	4	
ALCAN ALUMINUM CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
racenes by rear or apprication.		U	0	U	U	U	O	U	U	U	U	U	U	U	0	1	
ALLIED-SIGNAL INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
racenes by rear or appricacion.	_	Ū	· ·	· ·	· ·	Ū	· ·	· ·	Ū	•	J	J	Ū	Ū	· ·	_	
ARCO CHEMICAL TECHNOLOGY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
	-	-	•	•		·	•	=	-		-	_	-	-		=	
ARIMETCO, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
		-					-	-	-			-	-		-	=	
AUBURN UNIVERSITY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	

Organizational Patenting			(Gra	ınted: Ja	n 01, 19	77 - Dec	31, 199	б)	Ranked	List of	Organiz	ations w	ith 1	or More	Patents		
	Pre																
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
BASF CORP.																_	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
BATESVILLE CASKET COMPANY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
BBC BROWN, BOVERI & COMPANY, LIMITED																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
BEDFORD LIMITED																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BOSTON UNIVERSITY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BP AMERICA INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
BRAND INSULATIONS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
BRUNSWICK CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BURROUGHS WELLCOME CO.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
CARPENTER TECHNOLOGY CORPORATION	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CENTED AL CODINIVIED CORRORATION																	
CENTRAL SPRINKLER CORPORATION	0	0		0	4	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Grant:	0	0	0	0 1	1	0	0	0	0	0	0	0	0	0	0	1 1	
Patents By Year of Application:	0	U	U	1	U	U	U	U	U	U	U	U	U	U	U	1	

Organizational Patenting			(Gra	nted: Ja	ın 01, 19	77 - Dec	31, 199	6)	Ranked	l List of	Organiz	ations w	ith 1	or More	Patents	
	Pre															
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL
CLAIROL INCORPORATED																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
COBE LABORATORIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
CPT CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
CRAY RESEARCH, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
CYTOGEN CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
DAINIPPON SCREEN MFG. CO., LTD.																
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
DATA GENERAL CORP.																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
ELECTRIC POWER RESEARCH INSTITUTE, IN	NC.															
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ELF ATOCHEM NORTH AMERICA, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
EMERSON ELECTRIC CO.																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
EMHART INDUSTRIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1996) ---- Ranked List of Organizations with 1 or More Patents ----Pre 1983 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 TOTAL EXXON CHEMICALS PATENTS INC. Patents By Year of Grant: Patents By Year of Application: FIBERWEB NORTH AMERICA, INC. Patents By Year of Grant: Patents By Year of Application: 1 GENETICS INSTITUTE, INC. Patents By Year of Grant: Patents By Year of Application: GLYCO CHEMICALS, INC. Patents By Year of Grant: Patents By Year of Application: 1 GRACE ITALIANA S.P.A. Patents By Year of Grant: Patents By Year of Application: 1 GREAT LAKES CHEMICAL CORPORATION Patents By Year of Grant: Patents By Year of Application: 0 0 0 1 HENNING BERLIN GMBH CHEMIE- UND PHARMAWERK Patents By Year of Grant: Patents By Year of Application: 1 HEUER-LEONIDAS S.A. Patents By Year of Grant: Patents By Year of Application: HOECHST CELANESE CORPORATION Patents By Year of Grant: Patents By Year of Application: HUTCHINSON TECHNOLOGY INC. Patents By Year of Grant: 0 0 1 Patents By Year of Application: ICI AMERICAS INC. Patents By Year of Grant: 0 Patents By Year of Application:

Organizational Patenting			(Gra	nted: Ja	n 01, 19	77 - Dec	31, 199	б)	Ranked	List of	Organiz	ations w	ith 1	or More	Patents		
	Pre																
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
K. W. MUTH COMPANY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
racenes by rear or apprecation.	· ·	Ū	0	Ū	Ū	Ū	Ū	-	Ū	Ū	J	Ū	Ū	· ·	Ū	-	
KANEGAFUCHI CHEMICAL INDUSTRY CO., L	TD.																
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
KAO CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
KENNECOTT CORPORATION																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
WOURD TANG																	
KOHE, INC. Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
racenes by rear or appricacion.	_	0	0	U	U	U	U	U	U	U	U	O	U	O	0	_	
LUBRIZOL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
MACHINE BUILDERS AND DESIGN, INC.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
MEAD CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
MINIOTES CAMEDS CO. LED																	
MINOLTA CAMERA CO., LTD. Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
racenes by rear or apprecation.	-	Ū	0	Ū	Ū	Ū	Ū	Ū	Ū	Ū	J	Ū	Ū	Ü	Ū	-	
MITSUBISHI OIL CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
MONSANTO CO.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

Organizational Patenting			(Gra	nted: Ja	ın 01, 19	77 - Dec	31, 199	6)	Ranked	l List of	Organiz	ations w	ith 1	or More	Patents		
	_																
	Pre	1000	1004	1005	1006	1005	1000	1000	1000	1001	1000	1000	1004	1005	1006		
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
MOODE DISTURGE FORMS TWO																	
MOORE BUSINESS FORMS INC.	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	-	
Patents By Year of Grant:	0	0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	U	0	U	U	1	0	0	U	0	U	0	0	U	U	0	1	
MORTON THIOKOL, INC.			•	•				•				•	•	•			
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NATIONAL SEMICONDUCTOR CORPORATION																_	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NEW VENTURE GEAR, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
NGK SPARK PLUG CO., LTD.																_	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
NIHON NOHYAKU CO. LTD.																_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
NITTO BOSEKI CO., LTD.																_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
NORDSON CORPORATION			•	•				•				•	•				
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0 1	0	1 0	0	1 1	
Patents By Year of Application:	U	0	U	U	0	0	0	U	0	U	0	1	U	U	0	1	
MODEON GOMPANY																	
NORTON COMPANY	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	-	
Patents By Year of Grant:	0	0	0	0 1	0	1 0	0	0	0	0	0	0	0	0	0	1 1	
Patents By Year of Application:	U	U	U	1	U	U	U	U	U	U	U	U	U	U	U	1	
NUTRASWEET COMPANY																	
	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	U	U	U	U	U	1	U	U	U	U	U	U	U	U	U	1	
OCCIDENTAL CHEMICAL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
racenes by rear or Approcaction.	U	U	U	U	U	U	U	U	1	U	U	U	U	U	U	1	

Organizational Patenting			(Gra	nted: Ja	n 01, 19	77 - Dec	31, 199	5)	Ranked	List of	Organiz	ations w	ith 1	or More	Patents		
	Pre 1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
	1703	1703	1701	1703	1300	1707	1700	1707	1000	1001	1772	1000	1001	1000	1000	1011111	
OTIS ELEVATOR COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
PALL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
PENNSYLVANIA DEPARTMENT OF TRANSPORT	ATION																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
PPG INDUSTRIES INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
PROCESS LAB. MICRON CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
PULLMAN, INCORPORATED																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
QUANTUM CHEMICAL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
R. J. REYNOLDS TOBACCO COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
REYNOLDS METALS COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
RHONE-POULENC AG COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
RHONE-POULENC CHEMICALS LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	

Organizational Patenting			(Gra	nted: Ja	n 01, 19	77 - Dec	31, 199	6)	Ranked	l List of	Organiz	ations w	rith 1	or More	Patents	
	Pre	1000	1004	1005	1006	1000	1000	1000	1000	1001	1000	1000	1004	1005	1006	
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL
RHONE-POULENC RORER PHARMACEUTICALS I	NC.															
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
RHONE-POULENC SECTEUR AGROCHIMIE																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
RICHARD WOLF GMBH																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
RICHARDSON CHEMICAL COMPANY																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
ROGERS CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
SEAGATE TECHNOLOGY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
SEMATECH, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
SHIONOGI + CO. LTD.																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
SINCLAIR OIL CORPORATION																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
STANDARD OIL COMPANY																
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
TOKYO ROPE MANUFACTURING CO., LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

Organizational Patenting			(Gra	nted: Ja	ın 01, 19	77 - Dec	31, 199	6)	Ranked List of Organizations with 1 or More Patents								
	Pre																
	1983	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	TOTAL	
TOWMOTOR CORPORATION	_																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
TOYOTA JIDOSHA K.K.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	Λ	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
radenes sy rear or approaches	Ū	Ū	· ·	-	ŭ	Ū	ŭ	Ü	ŭ	· ·	Ū	· ·	Ŭ	Ü	ŭ	-	
ULTRAPOINTE CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
UNITED TECHNOLOGIES CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
WANGNER SYSTEMS CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
WHIRLPOOL CORPORATION	_																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Other Organizations (0)																	
Patents By Year of Grant:	0	0	0	Λ	0	0	0	0	0	0	Λ	0	0	0	0	0	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
racenes by rear or apprication.	0	U	0	U	U	U	U	U	0	0	U	U	U	U	U	U	